
**SYSTEM AND METHOD FOR READING
DATA STORED ON A MAGNETIC SHIFT REGISTER**

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ABSTRACT OF THE INVENTION

10 A reading device reads the direction of the magnetic moment of domains in
a magnetic shift register, thus reading information stored in the domains or bits
in the magnetic shift register. Associated with each domain wall are large
magnetic fringing fields. The domain wall concentrates the change in
magnetism from one direction to another in a very small space. Depending on
the nature of the domain wall, very large dipolar fringing fields can emanate
15 from the domain wall. This characteristic of magnetic domains is used to read
data stored on to the magnetic shift register. The reading device reads the
direction of the magnetic moment in a magnetic shift register, thus reading
information stored in the domains.

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